AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (Original) A method of crosslinking a polysaccharide comprising the steps of:
 - (a) providing a metal coordinating group having a reactive site,
- (b) derivatizing a polysaccharide with the metal coordinating group to produce a derivatized polysaccharide having bidentate ligands, and
- (c) crosslinking the derivatized polysaccharide having bidentate ligands with a metal ion to form a metal ligand coordination complex.
- 2. (Original) The method of claim 1 wherein the polysaccharide comprises guar, xanthan, locust bean gum, hydroxy ethyl and hydroxy propyl derivatives of gums, or hydroxyethylcellulose.
- 3. (Original) The method of claim 1 wherein the derivatized polysaccharide having bidentate ligands is crosslinked with a crosslinking agent comprising a compound chosen from the group consisting of copper, nickel, iron, ruthenium, palladium, platinum, iridium and cobalt.
- 4. (Original) The method of claim 1 wherein the bidentate ligands comprise ethylenediamine, acetylacetonate ions, dithiocarbamate, 2,2'-bipyridine, 1,10-phenanthroline, or 8-hydroxyquinolinato.
- 5. (Original) The method of claim 3 wherein the crosslinking agent is present in an amount up to about 500 moles of crosslinking agent per mole of polysaccharide.
- 6. (Original) The method of claim 3 wherein step (c) occurs within a wellbore in a subterranean formation.
- 7. (Original) The method of claim 3 wherein the polysaccharide comprises guar and the crosslinking agent is a derivative of iron or ruthenium.

8. (Withdrawn) A method of fracturing a subterranean formation comprising the steps of:

providing a treatment fluid comprising proppant and a crosslinked polysaccharide made by a method comprising the steps of:

providing a metal coordinating group having a reactive site,

derivatizing a polysaccharide with the metal coordinating

group to produce a derivatized polysaccharide having

bidentate ligands, and

crosslinking the derivatized polysaccharide having

bidentate ligands with a metal ion to form a metal ion crosslinked

polysaccharide; and

placing the treatment fluid into a wellbore within the subterranean formation at a chosen pressure to create or enhance a fracture in the subterranean formation.

- 9. (Withdrawn) The method of claim 8 wherein the polysaccharide comprises guar, xanthan, locust bean gum, hydroxyethyl and hydroxypropyl derivatives of gums, or hydroxyethylcellulose.
- 10. (Withdrawn) The method of claim 8 wherein the derivatized polysaccharide having bidentate ligands is crosslinked with a crosslinking agent comprising a compound chosen from the group consisting of copper, nickel, iron, ruthenium, palladium, platinum, iridium and cobalt.
- 11. (Withdrawn) The method of claim 8 wherein the bidentate ligands comprise ethylenediamine, acetylacetonate ions, dithiocarbamate, 2,2'-bipyridine, 1,10-phenanthroline, or 8-hydroxyquinolinato.
- 12. (Withdrawn) The method of claim 10 wherein the crosslinking agent is present in an amount up to about 500 moles of crosslinking agent per mole of polysaccharide.
- 13. (Withdrawn) The method of claim 10 wherein the crosslinking of the derivatized polysaccharide having bidentate ligands to form a metal ion crosslinked polysaccharide occurs within the wellbore.
- 14. (Withdrawn) The method of claim 10 wherein the polysaccharide comprises guar and the crosslinking agent is a derivative of iron or ruthenium.

- 15. (Withdrawn) The method of claim 8 wherein the treatment fluid comprises a gel stabilizer, breaker, clay stabilizer, bactericide, or fluid loss additive.
- 16. (Withdrawn) A method of providing sand control in a well bore penetrating a subterranean formation comprising the steps of:
 - (a) providing a treatment fluid comprising gravel and a metal ion crosslinked polysaccharide made by a method comprising the steps of:
 - (i) providing a metal coordinating group having a reactive site,
 - (ii) derivatizing the polysaccharide with the metal coordinating group to produce a derivatized polysaccharide having bidentate ligands, and
 - (iii) crosslinking the derivatized polysaccharide having bidentate ligands with a metal ion to form a metal ion crosslinked polysaccharide; and
 - (b) placing the treatment fluid into an annulus between the well bore and the neighboring subterranean formation so as to form a gravel pack in the annulus.
- 17. (Withdrawn) The method of claim 16 wherein the polysaccharide comprises guar, xanthan, locust bean gum, hydroxy ethyl and hydroxy propyl derivatives of gums, or hydroxyethylcellulose.
- 18. (Withdrawn) The method of claim 16 wherein the derivatized polysaccharide having bidentate ligands is crosslinked with a crosslinking agent comprising a compound chosen from the group consisting of copper, nickel, iron, ruthenium, palladium, platinum, iridium and cobalt.
- 19. (Withdrawn) The method of claim 16 wherein the bidentate ligands comprise ethylenediamine, acetylacetonate ions, dithiocarbamate, 2,2'-bipyridine, 1,10-phenanthroline, or 8-hydroxyquinolinato.
- 20. (Withdrawn) The method of claim 18 wherein the crosslinking agent is present in an amount up to about 500 moles of crosslinking agent per mole of polysaccharide.
- 21. (Withdrawn) The method of claim 16 wherein the crosslinking of the derivatized polysaccharide having bidentate ligands to form a metal ion crosslinked polysaccharide occurs within the wellbore.

- 22. (Withdrawn) The method of claim 18 wherein the polysaccharide comprises guar and the crosslinking agent is a derivative of iron or ruthenium.
- 23. (Withdrawn) The method of claim 17 wherein the treatment fluid comprises a gel stabilizer, breaker, clay stabilizer, bactericide, or fluid loss additive.
- 24. (Withdrawn) A method of producing hydrocarbons from a subterranean formation comprising introducing to a well bore penetrating the subterranean formation a treatment fluid comprising a metal ion crosslinked polysaccharide made by a method comprising the steps of:
 - (a) providing a metal coordinating group having a reactive site on the metal coordinating group,
 - (b) derivatizing a polysaccharide with the metal coordinating group to produce a derivatized polysaccharide having bidentate ligands, and
 - (c) crosslinking the derivatized polysaccharide having bidentate ligands to form a metal ion crosslinked polysaccharide.
- 25. (Withdrawn) The method of claim 24 wherein the polysaccharide comprises guar, xanthan, locust bean gum, hydroxy ethyl and hydroxy propyl derivatives of gums, or hydroxyethylcellulose.
- 26. (Withdrawn) The method of claim 24 wherein the derivatized polysaccharide having bidentate ligands is crosslinked with a crosslinking agent comprising a compound chosen from the group consisting of copper, nickel, iron, ruthenium, palladium, platinum, iridium and cobalt.
- 27. (Withdrawn) The method of claim 24 wherein the bidentate ligands comprise ethylenediamine, acetylacetonate ions, dithiocarbamate, 2,2'-bipyridine, 1,10-phenanthroline, or 8-hydroxyquinolinato.
- 28. (Withdrawn) The method of claim 26 wherein the crosslinking agent is present in an amount up to about 500 moles of crosslinking agent per mole of polysaccharide.
- 29. (Withdrawn) The method of claim 24 wherein the crosslinking of the derivatized polysaccharide having bidentate ligands to form a metal ion crosslinked polysaccharide occurs within the wellbore.

- 30. (Withdrawn) The method of claim 26 wherein the polysaccharide comprises guar and the crosslinking agent is a derivative of iron or ruthenium.
- 31. (Withdrawn) The method of claim 25 wherein the treatment fluid comprises a gel stabilizer, breaker, clay stabilizer, bactericide, or fluid loss additive.
- 32. (Original) A metal ion crosslinked polysaccharide produced by a method comprising the steps of:
 - (a) providing a metal coordinating group having a reactive site on the metal coordinating group,
 - (b) derivatizing a polysaccharide with the metal coordinating group to produce a derivatized polysaccharide having bidentate ligands, and
 - (c) crosslinking the derivatized polysaccharide having bidentate ligands to form a metal ion crosslinked polysaccharide.